

Translation

PATENT COOPERATION TREATY

PCT/JP2003/016588



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SF-983	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP2003/016588	International filing date (day/month/year) 24 December 2003 (24.12.2003)	Priority date (day/month/year) 04 April 2003 (04.04.2003)
International Patent Classification (IPC) or national classification and IPC C08F 8/00, G11B 7/24, H01L 21/56, G03F 7/039, C09D 123/26, C09J 123/26, C08J 5/00, G02B 1/04 // C08L 45:00		
Applicant SOKEN CHEMICAL & ENGINEERING CO., LTD.		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input checked="" type="checkbox"/> Certain observations on the international application</p>

Date of submission of the demand 16 May 2004 (16.05.2004)	Date of completion of this report 10 December 2004 (10.12.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

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I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☐ the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the claims:
 pages _____, as originally filed
 pages _____, as amended (together with any statement under Article 19
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the drawings:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	12-15, 19	YES
	Claims	1-11, 16-18	NO
Inventive step (IS)	Claims	12-15, 19	YES
	Claims	1-11, 16-18	NO
Industrial applicability (IA)	Claims	1-19	YES
	Claims		NO

2. Citations and explanations

Document 1: WO, 98/18837, A (Nippon Zeon Co., Ltd.), 07 May, 1998, Claims, pages 37-38, page 74, Examples 10, 11, 13, 20 & EP, 936230, A1.

Document 2: JP, 6-172423, A (Idemitsu Kosan Co., Ltd.), 21 June, 1994, Claims, Par. Nos. [0079]-[0085] (Family: none).

Document 3: JP, 10-7736, A (Mitsui Chemicals, Inc.), 13 January, 1998, Claims, Par. Nos. [0005], [0217] to [0231] (Family: none).

(Claim 1)

The invention of claim 1 does not appear to possess novelty or involve an inventive step.

As for feature of the invention of claim 1: "chemically modifying by adding a modifying agent compound having a functional group and a hydrogen-donating group or a functional group and a halogenated alkyl group to a base polymer of a cycloolefin copolymer having an ethylene chain", the aforementioned documents 1-3 described in the ISR describe graft modification and introduction of functional groups (see indicated place in each document). As for the amount of introduced functional group described in the invention of claim 1 as "adding a functional group within a range of 20-90%," the aforementioned documents 1-3 described in the ISR describe the variable quantity thereof and those ranges overlap (see document 1, page 35, document 2, Par. No. [0079], document 3, Par. No. [0231]).

The aforementioned documents 1-3 described in the ISR do not describe the distribution correlation factor value of the invention of claim 1, but structural difference in the polymer modified by this numerical value cannot be confirmed.

(Claim 2)

The invention of claim 2 does not appear to possess novelty or involve an inventive step.

The invention of claim 2 restricts the invention of claim 1 with respect to the functional group, but this feature is described in the aforementioned documents 1-3 described in the ISR (see indicated places in each document).

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VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 1 describes the distribution correlation factor value, but the technological meaning thereof as a degree of homogeneity is not described and the meaning thereof in terms of polymer structure is not clear.

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PCT/JP03/16588**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of Box V:

(Claims 3-11, 16-18)

The invention of claims 3-11, 16-18 do not appear to possess novelty or involve an inventive step.

The invention of claim 3 restricts the invention of claim 1 with respect to the functional group, but this feature is described in the aforementioned document 1 described in the ISR (see the indicated places).

The invention of claim 4 is the invention relating to the manufacturing method, but this is described in the aforementioned document 1 described in the ISR (see the indicated places).

The inventions of claims 5-10 restrict the invention of claim 1 with respect to the functional group and peroxide compound, but this feature is described in the aforementioned document 1 described in the ISR (see the indicated places).

Further, as mentioned hereinabove, the distribution correlation factor value is not described in the aforementioned documents 1-3 described in the ISR, but structural difference in the polymer modified by this numerical value cannot be confirmed.

The inventions of claims 11, 16-18 relate to photoresist resin compositions, resins for optical components, resins for recording medium substrate, and resins for IC package sealing, but those applications are described in the aforementioned document 1 described in the ISR (see the indicated place).

(Claims 12-15, 19)

The invention of claims 12-15 and 19 appear to possess novelty and involve an inventive step.

The aforementioned documents cited in the ISR do not describe the adhesive, resin for a low-permeability film, resin for a protective film, resin for overcoating, and resin for a light conduction plate of the invention of claims 12-15 and 19 and this invention could not have been easily created by a person skilled in the art.